Appendix E. FCC 3G SAR Measurement Procedures

Conducted Output Power:

The EUT was tested according to the requirements of the FCC 3G procedures and the 3.1.2.3.4.

A detailed analysis of the output power verification is provided as the table below:

Function Type	Reverse Traffic Channel	Test Mode	Radio Configuration					Low Ch	Mid. Ch	High Ch
			Forward Traffic Channel (Fwd)	Traffic	Service Option	Data Rates	Power Control	1013	384	777
CDMA2000 Cellular	FCH	1	1	1	55	Full	All Up	24.02	24.00	23.97
		3	3	3	55	Full	All Up	24.05	24.14	24.00
		3	3	3	32	Full	All Up	24.02	24.09	23.90
	SCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	24.00	24.01	23.87
	EVDO Rev.0	Subtype:0				RTAP 153.6	All Up	24.13	24.13	24.05
	EVDO Rev.A	Subtype:0				RETAP 4096	All Up	24.09	24.13	24.10

Function Type	Reverse Traffic Channel	Test Mode	Radio Configuration					Low Ch	Mid. Ch	High Ch
			Forward Traffic Channel (Fwd)	Traffic	Service Option	Data Rates	Power Control	25	600	1175
CDMA2000 PCS	FCH	1	1	1	55	Full	All Up	24.10	24.19	23.95
		3	3	3	55	Full	All Up	24.12	24.24	24.09
		3	3	3	32	Full	All Up	24.08	24.23	23.97
	SCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	23.06	23.24	23.96
	EVDO Rev.0	Subtype:0				RTAP 153.6	All Up	24.19	23.23	24.05
	EVDO Rev.A	Subtype:0				RETAP 4096	All Up	24.11	24.23	24.12

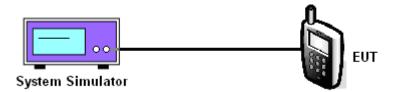
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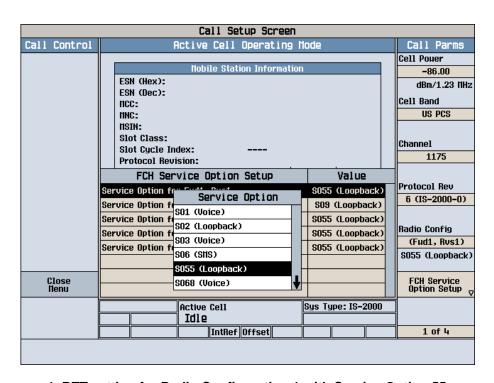
Report No.: FA0N2344-01A

CDMA2000 Setup Configuration:



Setup Configuration

- 1. The EUT was connected to System Simulator, Agilent 8960. Refer to the drawing of Setup Configuration.
- 2. The RF path losses were compensated into the measurements.
- 3. A call was established between EUT and System Simulator with following setting:
 - a. For 1xRTT, set the Radio Configuration and the Service Option
 - b. For 1xEV-DO, set the Protocol Release and Data Rate
 - c. Set the Power Control to All Up Bits
- 4. The transmitted maximum output power was recorded.



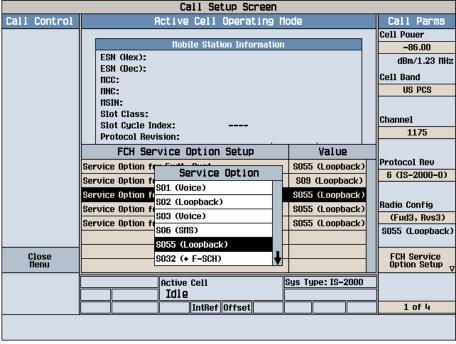
1xRTT setting for Radio Configuration 1 with Service Option 55

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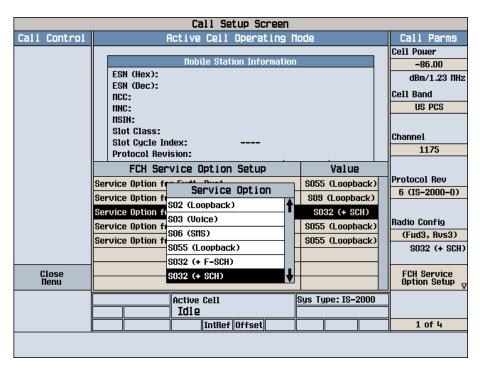
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Mode Call Parms
Cell Power
-86.00

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1xRTT setting for Radio Configuration 3 with Service Option 55



1xRTT setting for Radio Configuration 3 with Service Option 32

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Call Setup Screen Call Control Active Cell Operating Mode Call Parms Operating Mode Rvs Pouer Ctrl Active bits Active Cell Access Terminal Information (AT Reported) Session Seed: Harduare ID Type (Hex): Pur Ctrl Step Harduare ID (Hex): 1.0 dB Hardware ID (Decimal): Access Terminal Information (AN Assigned) Call Drop Timer Start Data Connection UATI 024: On **UATI Color Code:** MAC Index: Call Limit Mode Protocol Release Off Session Appl 0 (1xEV-00) **Application** Test Applica A (1xEV-DO-A) Protocol Rel Handoff Setup Limited TAP: B (1xEV-DO-B) 0 (1xEV-D0) **AT Directed** DRC Value F AT Max Pouer **ACK Channel** 23 dBm/1.23ffHz

1xEV-DO setting for Protocol Release (Rev.0 or Rev.A)

IntRef Offset

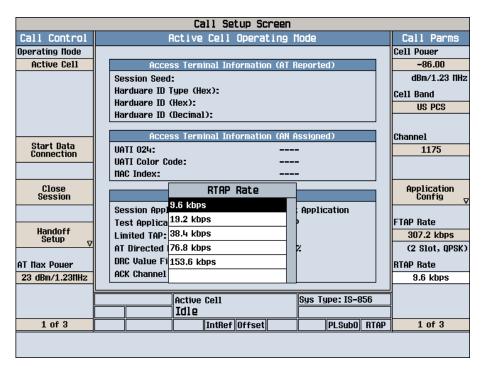
Sus Tupe: IS-856

PLSub0 RTAP

2 of 3

Active Cell

Idle



1xEV-DO setting for RTAP data rate (153.6 kbps)

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Call Setup Screen Call Control Active Cell Operating Mode Call Parms Operating Mode Access Terminal Information (AT Reported) Active Cell -86.00 Session Seed: dBm/1.23 MHz Hardware ID Type (Hex): Cell Band Harduare ID (Hex): Hardware ID (Decimal): US PCS Terminal Information (AN Assigned) UATI 024: Channel Start Data Connection UATI Color Code: 1175 MAC Index: Application Configuration Application Config R-Data Packet Size Session Appl **Application** Enhanced Te 128 AT Directed 256 F-Traffic Format DRC Value Fi ACK Channel Handoff Setup 4 (1024,2,128) ACK Channel 768 (307.2k, QPSK) Reverse Data 1024 Capacity AT Max Pouer R-Data Pkt Size Expected Enl 1536 kbps 23 dBm/1.23ffHz 128 bits Active Cell Sys Type: IS-856

1xEV-DO setting for RETAP data rate (4096 bits)

IntRef Offset

PLSub0 RETAP

1 of 3

Idle

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Reference:

- [1] SAR Measurement Procedures for 3G Devices CDMA 2000/Ev-Do/WCDMA/HSDPA, June 2006 Laboratory Division Office of Engineering and Technology Federal Communications Commission
- [2] 3.1.2.3.4 Maximum RF Output Power 3GPP2 C.S0033-0 Version 2.0, Date: 12 December 2003 Recommended Minimum Performance Standards for cdma2000 High Rate Packet Data Access Terminal

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